



Missouri  
Department of  
Natural Resources

City of Butler  
Power Plant Name: Butler  
Electric Generation and Emissions in 2011

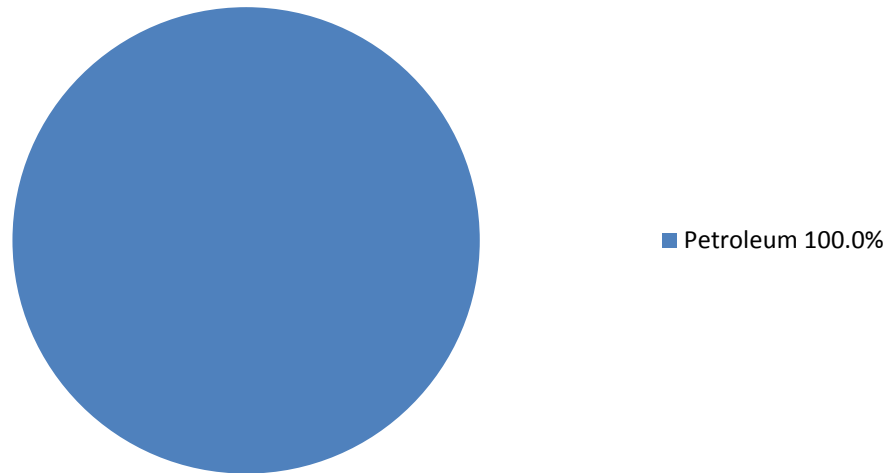
Generation Tables

	Fuel Consumption, MMBTUs	Percent of Total		Net Electric Power Generated, MWh	Percent of Total	
<b>Non-renewable sources</b>						
Coal						
Natural Gas						
Petroleum	1,205	100.0%	100.0%	116	100.0%	100.0%
Nuclear						
Other						
<b>Non-renewable total</b>	<b>1,205</b>	<b>100.0%</b>	<b>100.0%</b>	<b>116</b>	<b>100.0%</b>	<b>100.0%</b>
<b>Renewable sources</b>						
Biomass						
Hydroelectric						
Landfill Gas						
Solar						
Waste Fuels						
Wind						
Wood						
<b>Renewable total</b>						
<b>Grand total</b>	<b>1,205</b>		<b>100.0%</b>	<b>116</b>		<b>100.0%</b>

Fuel Type	Physical Units	Number of Units
Distillate Fuel Oil	Barrels	209



## Net Generation by Fuel Type, 2011 for Butler





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Power Plant Nameplate information for Butler

Plant Name	County Location	Generator	Generator Type	Generator Status	Nameplate Capacity (MW)
Butler		<i>All Operating Generators</i>			52.4
Butler	Bates	3	Internal Combustion Engine (diesel, piston, reciprocating)	Operating - in service	3.2
Butler	Bates	4	Internal Combustion Engine (diesel, piston, reciprocating)	Operating - in service	5.6
Butler	Bates	5	Internal Combustion Engine (diesel, piston, reciprocating)	Operating - in service	5.6
Butler	Bates	IC6	Internal Combustion Engine (diesel, piston, reciprocating)	Operating - in service	6.0
Butler	Bates	NG1	Internal Combustion Engine (diesel, piston, reciprocating)	Operating - in service	8.0
Butler	Bates	NG2	Internal Combustion Engine (diesel, piston, reciprocating)	Operating - in service	8.0
Butler	Bates	SG1	Internal Combustion Engine (diesel, piston, reciprocating)	Operating - in service	8.0
Butler	Bates	SG2	Internal Combustion Engine (diesel, piston, reciprocating)	Operating - in service	8.0



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Emissions from Electricity Generated in 2011: Butler

	<b>CO2 Equivalent (TONS)</b>	<b>Carbon Dioxide (CO2) (TONS)</b>	<b>Methane (CH4) (TONS)</b>	<b>Nitrogen Dioxide (NO2) (TONS)</b>
Butler	1,712	389	16	3

	<b>Sulfur Dioxide (SO2) (TONS)</b>	<b>Annual Nitrogen Oxide (NOx) (TONS)</b>	<b>Summer Nitrogen Oxide (NOx) (TONS)</b>
Butler	0	0.0000	0.0000

Identified Flue Gas Desulfurization (FGD) controls installed on Butler power plant

<b>Plant</b>	<b>Control Equipment</b>	<b>Sorbent Type</b>
	No FGD Controls Installed	

Identified Flue Gas Particulate (FGP) controls installed on Butler power plant

<b>Plant</b>	<b>Control Equipment</b>
	No FGP Controls Installed



## Missouri Department of Natural Resources

### **Notes:**

Generation, emissions and pollution control data include power plants owned by the utility and located in Missouri.

Emissions data calculated by Missouri Department of Natural Resources, Division of Energy, from EIA Fuel Consumption Data

Fuel Consumption and Generation Data from United States Energy Information Administration, Form 923, United States Department of Energy  
<http://www.eia.gov/electricity/data/eia923>

Pollution control data (FGD and FGP equipment) from United States Energy Information Administration, Form 860, United States Department of Energy  
<http://www.eia.gov/electricity/data/eia860/index.html>

Emissions factors for fuel-based generation from United States Environmental Protection Agency "Emission Factors for Greenhouse Gas Inventories", November 7, 2011,  
<http://www.epa.gov/climateleadership/documents/emission-factors.pdf>